GE Interlogix

OH-Network Software Receiver For SP User's Guide

Version 1.2

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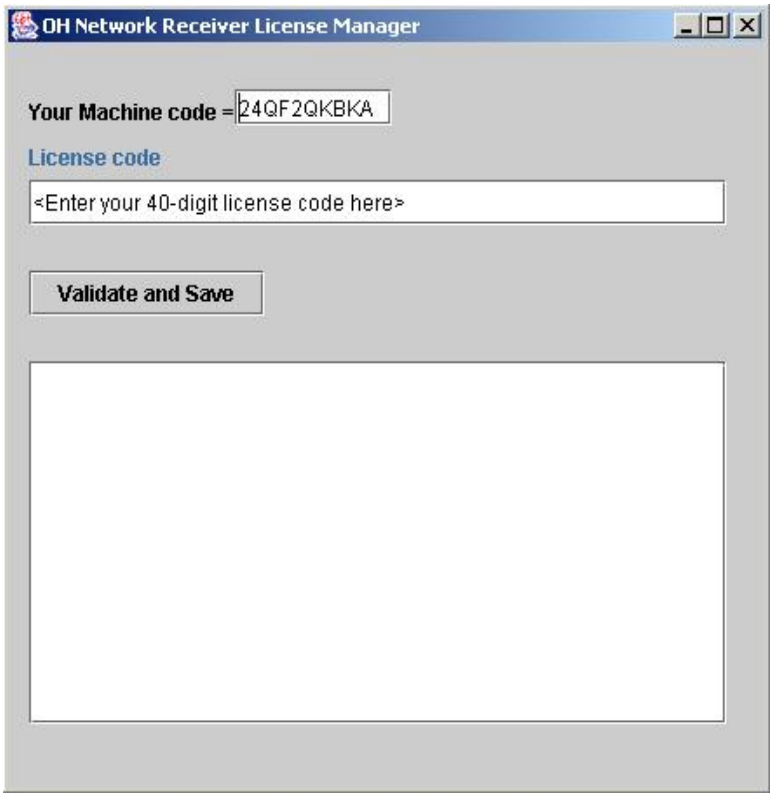
Starting The OH-Network Software Receiver for SP

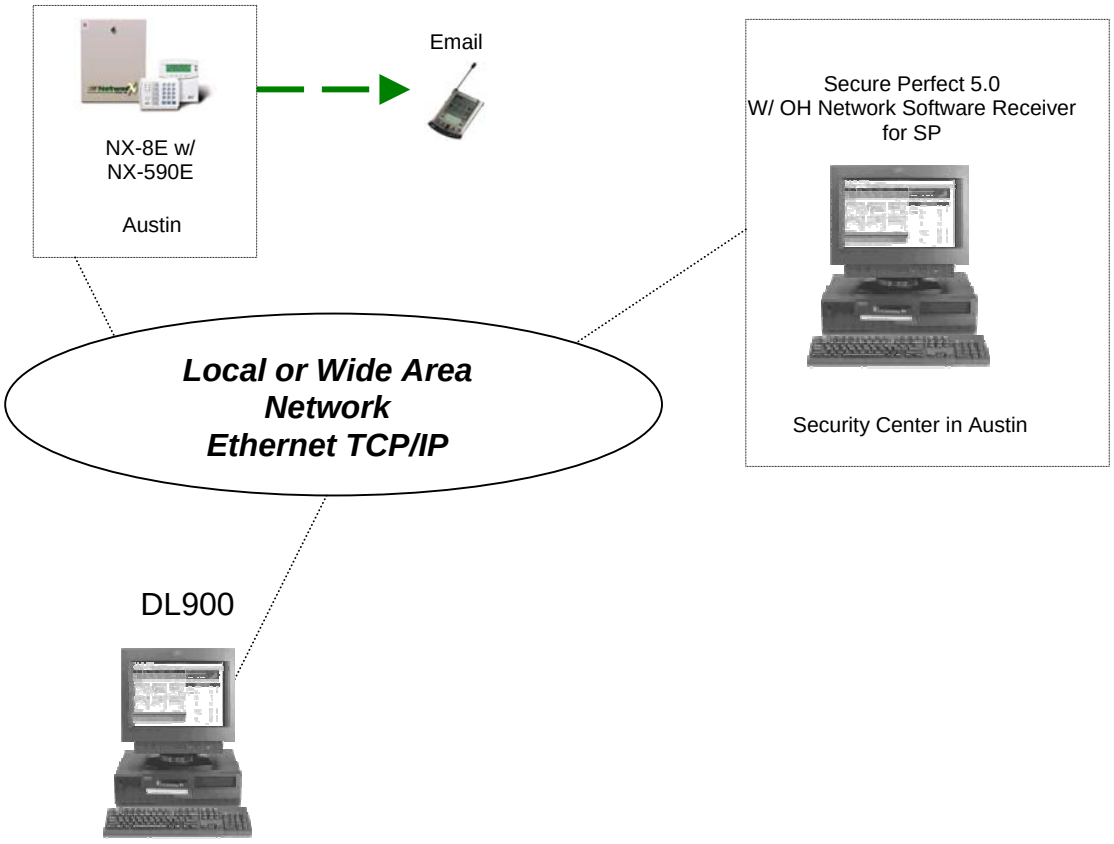
To start the OH-Network Software Receiver, click Start and then select Programs, GE Interlogix, and OHReceiverSP.

When the OH Network Software Receiver is started, it checks for a valid license. If a license exists, it starts normally and enables the WEB interface. If no license exists, the OH Network Software Receiver starts the License Manager window, shown below, is opened.



If the License Manager window is closed, the OH Network Software Receiver will terminate. The License Manager window is used to enter a License Code, which fully activates the OH Network Software Receiver. To license the OH Network Software Receiver, you need to contact customer support and give them your machine code. A new License Code will be generated which you must put in the License Code area and then click “Validate and Save”. Once a License Code is validated you should restart the OH Network Software Receiver.

Typical System Configuration



A typical system installation may include the following:

- Secure Perfect 5.0 or later
- SP API License
- OH Network Software Receiver for SP
- NX-8E w/ NX590E module
- DL900 Configuration/Download Software (free software that can be installed on any Windows workstation)

Alarms and arm/disarm (open/close) events are sent over the network using TCP/IP protocol to the OH Network Software Receiver for SP and on to SP using the API. All events sent from the NX-panel to the OH Network Software Receiver for SP are Triple-DES encrypted. The Triple-DES encryption used is NIST certified (Certificate No. 206) and can viewed on NIST official WEB site, http://csrc.nist.gov/cryptval/des/tripledesval.html. DL900 is free software available on our WEB site, http://www.geindustrial.com/ge-interlogix/index.html. A CD can also be requested. DL900 can be used to configure all aspect of the NX-panel, add/remove user code, and arm/disarm the panel. All these function are done over the network using TCP/IP protocol. All communication between the NX-panel and the DL900 are Triple-DES encrypted. The Triple-DES encryption used is NIST certified (Certificate No. 206) and can viewed on NIST official WEB site, http://csrc.nist.gov/cryptval/des/tripledesval.html.

OH Network Software Receiver Web Interface

To access the OH Network Software Receiver Web Interface home page, start Microsoft Internet Explorer. If your are running Explorer on the same PC as the OH Network Software Receiver, on the Address line at the top type http://localhost and press the RETURN key. If you are on a different PC, type http://IP Address Of OH Network Receiver (i.e. http://3.18.146.106) and press the RETURN key. The home page will display as shown below.

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/index.html
Go Links
GE Interlogix
Home Login About
Welcome to
OH Network Software Receiver
for SP
You need to configure your OH Receiver's network parameters before it can operate correctly on your network.
© Copyright 2002-2003 GE-Interlogix Inc. All rights reserved.
Questions? Comments? Email us.
Done
Local intranet
Start
11:19 AM

Home

The Home link will always return to the home page.

Login

The Login link is used to login, which will permit configuration of the OH Network Software Receiver. Clicking on Login displays the login page below.

To login, enter the User Name “root” and Password “ge-interlogix” then click Submit. If the User Name and/or Password are incorrect, the message Invalid User Name/Password will appear and the User Name and Password must be re-entered. If it is correct, the home page is displayed. The Login link is changed to Setup, as shown in the following web pages, and the configuration parameters can be accessed. If you do not interact with the Web Interface for approximately 10 minutes, you will be required to login again.

About

The About link will display a page of information about the OH Network Software Receiver as shown below.

Configuring The OH Network Software Receiver

Setup

Clicking on the Setup link opens the setup page shown below.

Note that all of the configuration pages, which can be selected from the setup page, have three buttons used to save new values (Save), reload the currently saved values (Current), or to load the default settings (Defaults).

Network Settings

The Network Settings link opens the network configuration page below.

The Port field is used to define the port alarm panels connect to when reporting alarms, polling the OH Network Receiver, etc. The Port should always be set to 9999.

Line Cut Settings

The Line Cut Settings link opens the Line Cut Timeout page, below, which defines the timeout period used to detect a broken connection to a polling alarm panel.

This value must be determined by the polling time programmed into the alarm panels, which report to the OH Network Receiver. It must be greater than the alarm panel-reporting interval. Two to three times the reporting interval should be sufficient.

SP Connection Settings

The SP Connection Settings link opens the Secure Perfect configuration page below.

The User Name and Password fields are the user name and password defined in the Secure Perfect Administration/API Connections menu. This user name and password enable the OH Network Software Receiver to connect to Secure Perfect.

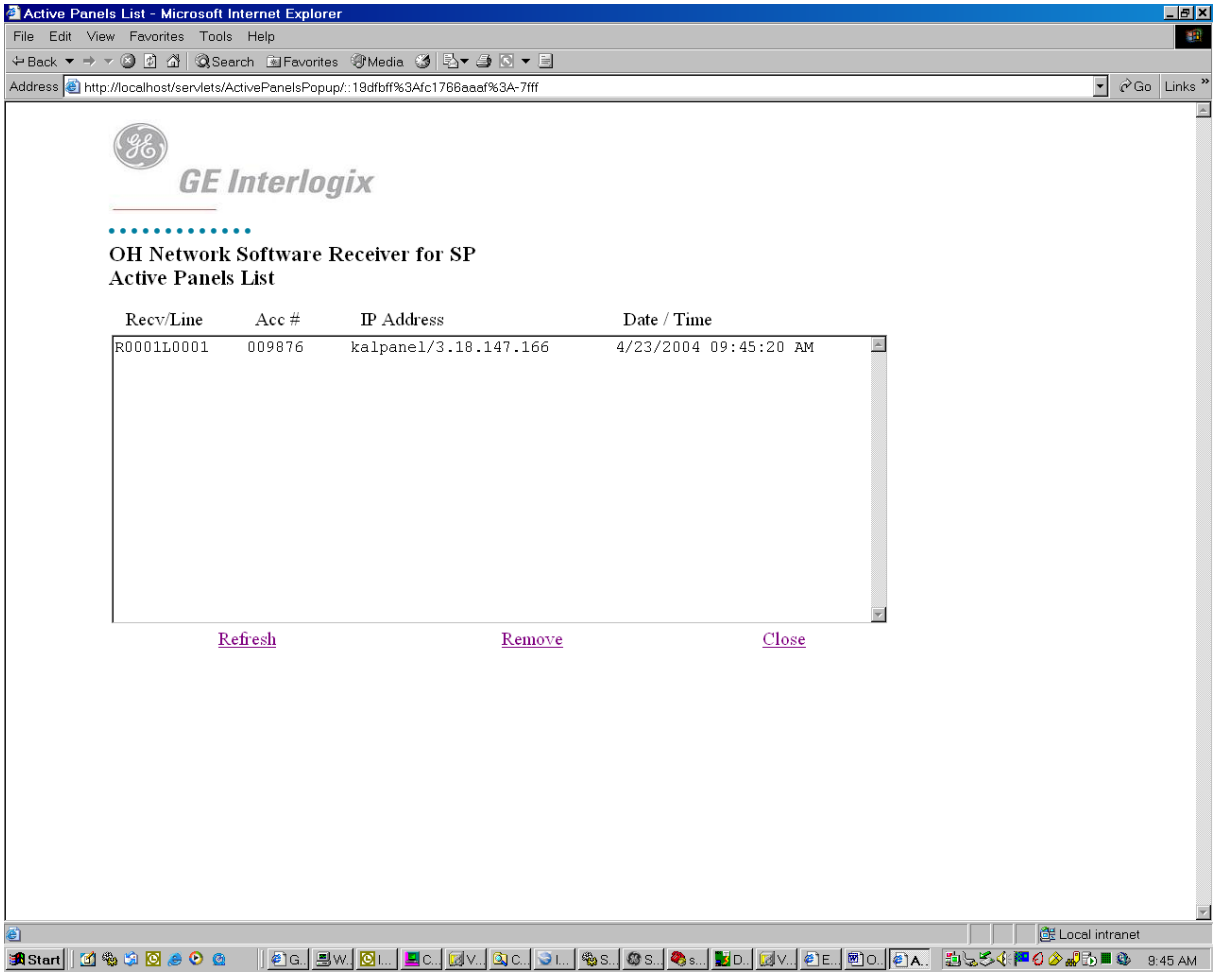
Logout

The Logout link logs the user off and opens the home page below.

Cannot find server - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Back Search Favorites Media
Address http://localhost/index.html
Go Links
GE Interlogix
Home Login About
Welcome to
OH Network Software Receiver
for SP
You need to configure your OH Receiver's network parameters before it can operate correctly on your network.
© Copyright 2002-2003 GE-Interlogix Inc. All rights reserved.
Questions? Comments? Email us.
Done
Local intranet
Start
11:19 AM

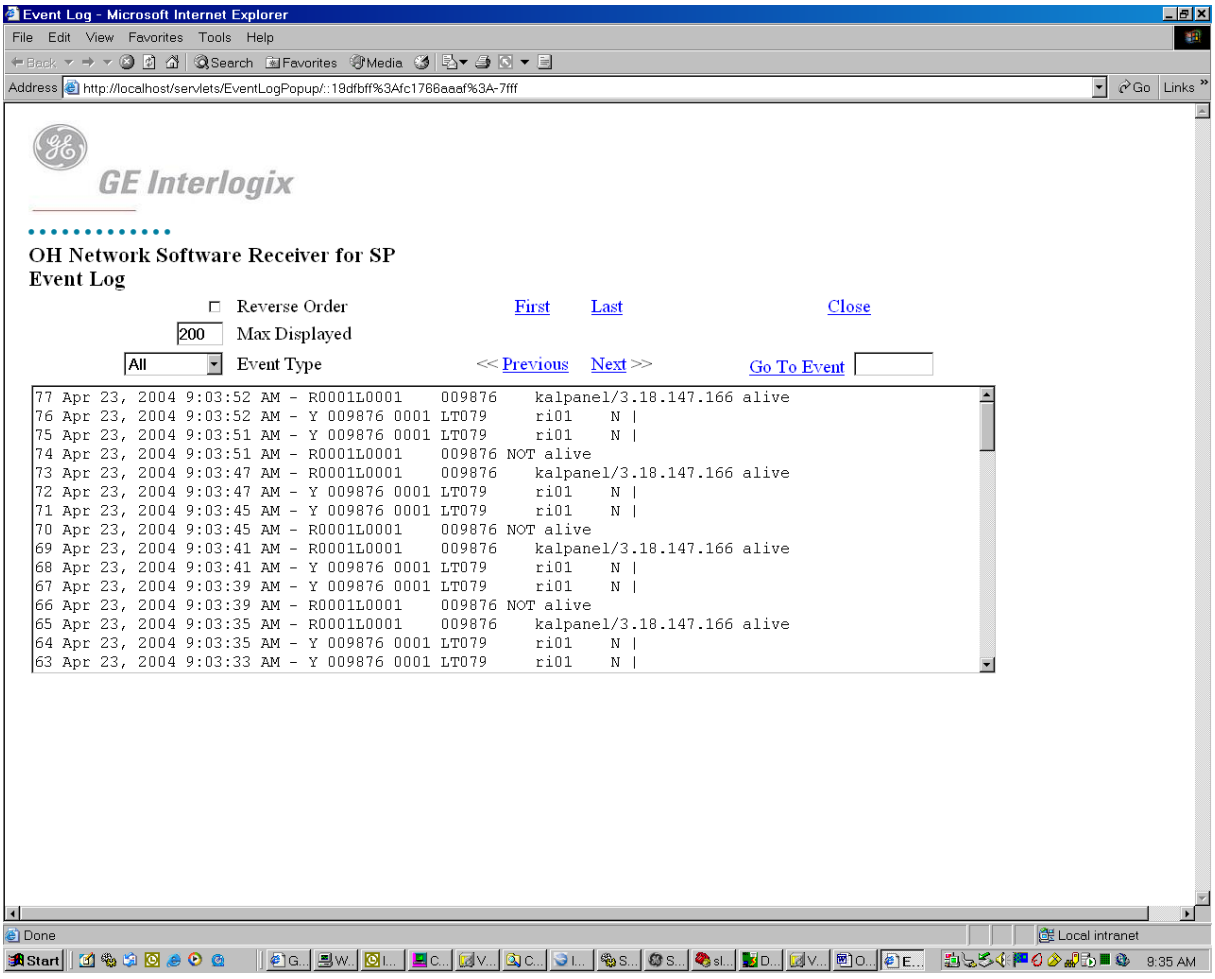
Active Panels

The Active Panels link opens a new window that shows a list of all panels that have sent a Network Alive Heartbeat to the OH Network Software Receiver for SP. The receiver uses the Line Cut Timeout value to determine if field panels have reliable and working network connection to the receiver. A LT079 event is generated by the receiver when a panel stops sending the Network Alive Heartbeat. The receiver generates a LR079 event when a panel resumes sending the Network Alive Heartbeat.



Events

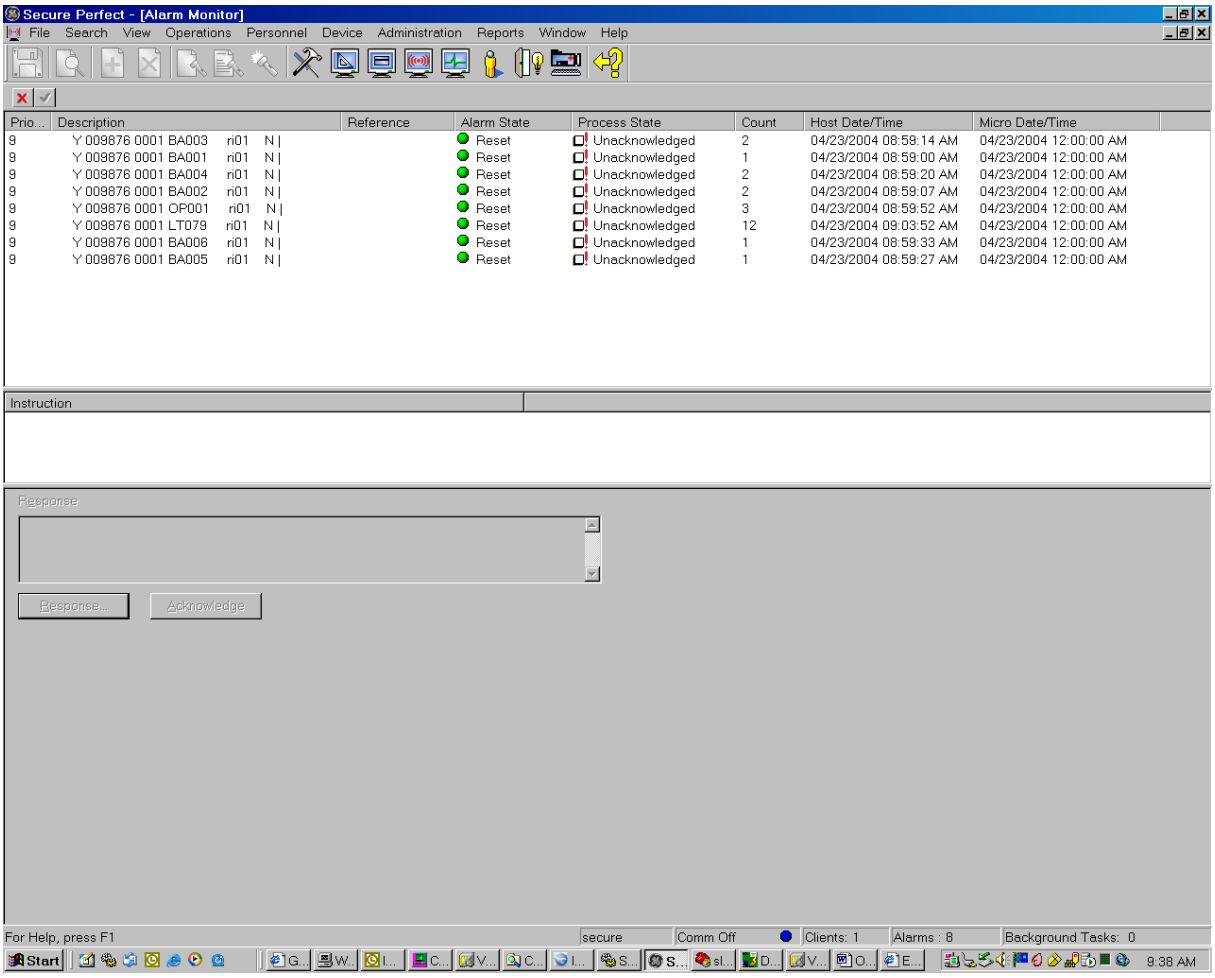
The Events link opens a new window that shows latest 1000 events.


Event Log - Microsoft Internet Explorer
File Edit View Favorites Tools Help
Address http://localhost/servlets/EventLogPopup/::19dfbff%3Afc1766aaaf%3A-7fff
GE Interlogix
OH Network Software Receiver for SP
Event Log
Reverse Order
First
Last
Close
200
Max Displayed
All
Event Type
<< Previous
Next >>
Go To Event
77 Apr 23, 2004 9:03:52 AM - R0001L0001 009876 kalpanel/3.18.147.166 alive
76 Apr 23, 2004 9:03:52 AM - Y 009876 0001 LT079 ri01 N |
75 Apr 23, 2004 9:03:51 AM - Y 009876 0001 LT079 ri01 N |
74 Apr 23, 2004 9:03:51 AM - R0001L0001 009876 NOT alive
73 Apr 23, 2004 9:03:47 AM - R0001L0001 009876 kalpanel/3.18.147.166 alive
72 Apr 23, 2004 9:03:47 AM - Y 009876 0001 LT079 ri01 N |
71 Apr 23, 2004 9:03:45 AM - Y 009876 0001 LT079 ri01 N |
70 Apr 23, 2004 9:03:45 AM - R0001L0001 009876 NOT alive
69 Apr 23, 2004 9:03:41 AM - R0001L0001 009876 kalpanel/3.18.147.166 alive
68 Apr 23, 2004 9:03:41 AM - Y 009876 0001 LT079 ri01 N |
67 Apr 23, 2004 9:03:39 AM - Y 009876 0001 LT079 ri01 N |
66 Apr 23, 2004 9:03:39 AM - R0001L0001 009876 NOT alive
65 Apr 23, 2004 9:03:35 AM - R0001L0001 009876 kalpanel/3.18.147.166 alive
64 Apr 23, 2004 9:03:35 AM - Y 009876 0001 LT079 ri01 N |
63 Apr 23, 2004 9:03:33 AM - Y 009876 0001 LT079 ri01 N |
Done
Local intranet
Start
9:35 AM

Exit

The Exit link Allows to terminate the ‘OHReceiverSP.exe’ process and the ‘OhstandaloneWeb’ process totally exists the receiver.

Event Format in Secure Perfect Alarm Monitor


Secure Perfect - [Alarm Monitor]
File Search View Operations Personnel Device Administration Reports Window Help
Prio... Description Reference Alarm State Process State Count Host Date/Time Micro Date/Time
9 Y 009876 0001 BA003 ri01 N | Reset Unacknowledged 2 04/23/2004 08:59:14 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 BA001 ri01 N | Reset Unacknowledged 1 04/23/2004 08:59:00 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 BA004 ri01 N | Reset Unacknowledged 2 04/23/2004 08:59:20 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 BA002 ri01 N | Reset Unacknowledged 2 04/23/2004 08:59:07 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 OP001 ri01 N | Reset Unacknowledged 3 04/23/2004 08:59:52 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 LT079 ri01 N | Reset Unacknowledged 12 04/23/2004 09:03:52 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 BA006 ri01 N | Reset Unacknowledged 1 04/23/2004 08:59:33 AM 04/23/2004 12:00:00 AM
9 Y 009876 0001 BA005 ri01 N | Reset Unacknowledged 1 04/23/2004 08:59:27 AM 04/23/2004 12:00:00 AM
Instruction
Response
Response...
Acknowledge
For Help, press F1
secure
Comm Off
Clients: 1
Alarms : 8
Background Tasks: 0
Start
9:38 AM

After an event is received into Secure Perfect, an alarm record is created. The Description field then could be change in that alarm record to provide the operator for user-friendly description of the alarm.

SIA Format

When an NX-panel is setup to send events in SIA format, the Description field in the Alarm Monitor would have the following format:

Y 001001 0001 LT079 ri01 N |

Y	Indicate a SIA format
001001	6 digits Account number
0001	4 digits Line number
LT	SIA event (Line Trouble)
079	Zone number or User code
ri	Partition indicator (fixed)
01	Partition number (0 to 16)
N	Qualifier (new)

CID Format

When an NX-panel is setup to send events in CID format, the Description field in the Alarm Monitor would have the following format:

C 1001 0001 Q 120 G01 Z001 |

C	Indicate a CID format
1001	4 digits Account number
0001	4 digits Line number
Q	Qualifier (Q=1=new, Q=3=restore, Q=6=old event) (for opening/closing events, Q=1=opening, Q=3=closing)
120	3 digits CID code
G	Partition indicator (fixed)
01	Partition number (0 to 16)
Z	Zone indicator (fixed)
001	3 digits zone number

SIA Codes

The following is a list of SIA codes for quick reference:

```
AN   ANALOG RESTORAL
AR   AC RESTORAL
AS   ANALOG SERVICE
AT   AC TROUBLE
BA   BURGLARY ALARM
BB   BURGLARY BYPASS
BC   BURGLARY CANCEL
BD   SWINGER TROUBLE
BE   SWINGER TRBL RESTORE
```

BH	BURG ALARM RESTORE
BJ	BURG TROUBLE RESTORE
BM	BURG ALARM CROSS PNT
BR	BURGLARY RESTORAL
BS	BURGLARY SUPERVISORY
BT	BURGLARY TROUBLE
BU	BURGLARY UNBYPASS
BV	BURGLARY VERIFIED
BX	BURGLARY TEST
BZ	MISSING SUPERVISION
CA	AUTOMATIC CLOSING
CD	CLOSING DELINQUENT
CE	CLOSING EXTEND
CF	FORCED CLOSING
CG	CLOSE AREA
CI	FAIL TO CLOSE
CJ	LATE CLOSE
CK	EARLY CLOSE
CL	CLOSING REPORT
CM	MISSING AL-RECNT CLS
CP	AUTOMATIC CLOSING
CR	RECENT CLOSING
CS	CLOSE KEY SWITCH
CT	LATE TO OPEN
CW	WAS FORCE ARMED
CZ	POINT CLOSING
DA	CARD ASSIGNED
DB	CARD DELETED
DC	ACCESS CLOSED
DD	ACCESS DENIED
DE	REQUEST TO ENTER
DF	DOOR FORCED
DG	ACCESS GRANTED
DH	DOOR LEFT OPEN-RSTRL
DJ	DOOR FORCED-TROUBLE
DK	ACCESS LOCKOUT
DL	DOOR LEFT OPEN-ALARM
DM	DOOR LEFT OPEN-TRBL
DN	DOOR LEFT OPEN
DO	ACCESS OPEN
DP	ACCESS DENIED-BAD TM
DQ	ACCESS DENIED-UN ARM
DR	DOOR RESTORAL
DS	DOOR STATION
DT	ACCESS TROUBLE
DU	DEALER ID#
DV	ACCESS DENIED-UN ENT
DW	ACCESS DENIED-INTRLK
DX	REQUEST TO EXIT
DY	DOOR LOCKED
DZ	ACCESS CLOSED STATE
EA	EXIT ALARM
EE	EXIT_ERROR
ER	EXPANSION RESTORAL
ET	EXPANSION TROUBLE
EX	EXTRNL DEVICE STATE
EZ	MISSING ALARM-EXT ER
FA	FIRE ALARM
FB	FIRE BYPASS
FC	FIRE CANCEL
FH	FIRE ALARM RESTORE

FI	FIRE TEST BEGIN
FJ	FIRE TROUBLE RESTORE
FK	FIRE TEST END
FM	FIRE ALARM CROSS PNT
FR	FIRE RESTORAL
FS	FIRE SUPERVISORY
FT	FIRE TROUBLE
FU	FIRE UNBYPASS
FX	FIRE TEST
FY	MISSING FIRE TROUBLE
FZ	MISSING FIRE SPRV
GA	GAS ALARM
GB	GAS BYPASS
GH	GAS ALARM RESTORE
GJ	GAS TROUBLE RESTORE
GR	GAS RESTORAL
GS	GAS SUPERVISORY
GT	GAS TROUBLE
GU	GAS UNBYPASS
GX	GAS TEST
HA	HOLDUP ALARM
HB	HOLDUP BYPASS
HH	HOLDUP ALARM RESTORE
HJ	HOLDUP TRBL RESTORE
HR	HOLDUP RESTORAL
HS	HOLDUP SUPERVISORY
HT	HOLDUP TROUBLE
HU	HOLDUP UNBYPASS
IA	EQPMT FAIL CONDITION
IR	EQPMT FAIL RESTORE
JA	USER CODE TAMPER
JD	DATE CHANGED
JH	HOLIDAY CHANGED
JK	LATCHKEY ALERT
JL	LOG THRESHOLD
JO	LOG OVERFLOW
JP	USER ON PREMISES
JR	SCHEDULE EXECUTED
JS	SCHEDULE CHANGED
JT	TIME CHANGED
JV	USER CODE CHANGED
JX	USER CODE DELETED
JY	USER CODE ADDED
JZ	USER LEVEL SET
KA	HEAT ALARM
KB	HEAT BYPASS
KH	HEAT ALARM RESTORE
KJ	HEAT TROUBLE RESTORE
KR	HEAT RESTORAL
KS	HEAT SUPERVISORY
KT	HEAT TROUBLE
KU	HEAT UNBYPASS
LB	LOCAL PROG. BEGIN
LD	LOCAL PROG. DENIED
LE	LISTEN IN ENDED
LF	LISTEN IN BEGIN
LR	PHONE LINE RESTORAL
LS	LOCAL PROG. SUCCESS
LT	PHONE LINE TROUBLE
LU	LOCAL PROG. FAIL
LX	LOCAL PROG. ENDED

L_	LISTEN IN + SECONDS
MA	MEDICAL ALARM
MB	MEDICAL BYPASS
MH	MEDIC ALARM RESTORE
MJ	MEDICAL TRBL RESTORE
MR	MEDICAL RESTORAL
MS	MEDICAL SUPERVISORY
MT	MEDICAL TROUBLE
MU	MEDICAL UNBYPASS
NA	NO ACTIVITY
NC	NETWORK CONDITION
NF	FORCED PERIMETER ARM
NL	PERIMETER ARMED
NR	NETWORK RESTORAL
NS	ACTIVITY RESUMED
NT	NETWORK FAILURE
OA	AUTOMATIC OPENING
OC	CANCEL REPORT
OG	OPEN AREA
OH	EARLY TO OPN FROM AL
OI	FAIL TO OPEN
OJ	LATE OPEN
OK	EARLY OPEN
OL	LATE TO OPEN FROM AL
OP	OPENING REPORT
OR	DISARM FROM ALARM
OS	OPEN KEY SWITCH
OT	LATE TO CLOSE
OZ	POINT OPENING
PA	PANIC ALARM
PB	PANIC BYPASS
PH	PANIC ALARM RESTORE
PJ	PANIC TRBL RESTORE
PR	PANIC RESTORAL
PS	PANIC SUPERVISORY
PT	PANIC TROUBLE
PU	PANIC UNBYPASS
QA	EMERGENCY ALARM
QB	EMERGENCY BYPASS
QH	EMRGCY ALARM RESTORE
QJ	EMRGCY TRBL RESTORE
QR	EMERGENCY RESTORAL
QS	EMRGCY SUPERVISORY
QT	EMERGENCY TROUBLE
QU	EMERGENCY UNBYPASS
RA	RMOTE PROG CALL FAIL
RB	REMOTE PROG. BEGIN
RC	RELAY CLOSE
RD	REMOTE PROG. DENIED
RN	REMOTE RESET
RO	RELAY OPEN
RP	AUTOMATIC TEST
RR	RESTORE POWER
RS	REMOTE PROG. SUCCESS
RT	DATA LOST
RU	REMOTE PROG. FAIL
RX	MANUAL TEST
RY	TEST OFF NORMAL
SA	SPRINKLER ALARM
SB	SPRINKLER BYPASS
SH	SPRKLR ALARM RESTORE

SJ	SPRKLR TRBL RESTORE
SR	SPRINKLER RESTORAL
SS	SPRINKLER SUPERVISRY
ST	SPRINKLER TROUBLE
SU	SPRINKLER UNBYPASS
TA	TAMPER ALARM
TB	TAMPER BYPASS
TC	ALL POINTS TESTED
TE	TEST END
TH	TAMPER ALRM RESTORE
TJ	TAMPER TRBL RESTORE
TP	WALK TEST POINT
TR	TAMPER RESTORAL
TS	TEST START
TT	TAMPER TROUBLE
TU	TAMPER UNBYPASS
TX	TEST REPORT
UA	UNTYPED ZONE ALARM
UB	UNTYPED ZONE BYPASS
UH	UNTYPD ALARM RESTORE
UJ	UNTYPED TRBL RESTORE
UR	UNTYPED ZONE RESTORE
US	UNTYPED ZONE SUPRVRY
UT	UNTYPED ZONE TROUBLE
UU	UNTYPED ZONE UNBYPSS
UX	UNDEFINED ALARM
UY	UNTYPED MISSING TRBL
UZ	UNTYPED MISSING ALRM
VI	PRINTER PAPER IN
VO	PRINTER PAPER OUT
VR	PRINTER RESTORE
VT	PRINTER TROUBLE
VX	PRINTER TEST
VY	PRINTER ONLINE
VZ	PRINTER OFFLINE
WA	WATER ALARM
WB	WATER BYPASS
WH	WATER ALARM RESTORE
WJ	WATER TRBL RESTORE
WR	WATER RESTORAL
WS	WATER SUPERVISORY
WT	WATER TROUBLE
WU	WATER UNBYPASS
XA	EXTRA ACCNT REPORT
XE	EXTRA POINT
XF	EXTRA RF POINT
XH	RF INTERFERENCE RST
XI	SENSOR RESET
XJ	RF RCVR TAMPER RST
XL	LOW RF SIGNAL
XM	MISSING ALRM-X POINT
XQ	RF INTERFERENCE
XR	TRANS. BAT. RESTORAL
XS	RF RECEIVER TAMPER
XT	TRANS. BAT. TROUBLE
XW	FORCED POINT
XX	FAIL TO TEST
YA	BELL FAULT
YB	BUSY SECONDS
YC	COMMUNICATIONS FAIL
YD	RCV LINECARD TROUBLE

YE	RCV LINECARD RESTORE
YF	PARA CHECKSUM FAIL
YG	PARAMETER CHANGED
YH	BELL RESTORED
YI	OVERCURRENT TROUBLE
YJ	OVERCURRENT RESTORE
YK	COMM. RESTORAL
YM	SYSTEM BATT MISSING
YN	INVALID REPORT
YO	UNKNOWN MESSAGE
YP	PWR SUPPLY TROUBLE
YQ	PWR SUPPLY RESTORE
YR	SYSTEM BAT. RESTORAL
YS	COMMUNICATIONS TRBL
YT	SYSTEM BAT. TROUBLE
YW	WATCHDOG RESET
YX	SERVICE REQUIRED
YY	STATUS REPORT
YZ	SERVICE COMPLETED
ZA	FREEZE ALARM
ZB	FREEZE BYPASS
ZH	FREEZE ALARM RESTORE
ZJ	FREEZE TRBL RESTORE
ZR	FREEZE RESTORAL
ZS	FREEZE SUPERVISORY
ZT	FREEZE TROUBLE
ZU	FREEZE UNBYPASS

Contact Id

The following is a list of CID codes for quick reference:

```
100  MEDICAL
101  PENDANT XMITTER
102  FAIL REPORT IN
110  FIRE ALARM
111  FIRE SMOKE
112  FIRE COMBUSTION
113  FIRE WATER FLOW
114  FIRE HEAT
115  FIRE PULLSTATION
116  FIRE DUCT
117  FIRE FLAME
118  FIRE NEAR ALARM
120  PANIC ALARM
121  DURESS
122  SILENT PANIC
123  AUDIBLE PANIC
124  DURESS ACCESS GRANT
125  DURESS EGRESS GRANT
130  BURGLARY
131  PERIMETER BURG
132  INTERIOR BURG
133  24 HOUR BURG
134  ENTRY/EXIT BURG
135  DAY/NIGHT BURG
136  BURG OUTDOOR
137  BURG TAMPER
138  BURG NEAR ALARM
139  INTRUSN VERIFIER
140  GENERAL ALARM
141  POLLING LP OPEN
142  POLL LP SHORT AL
143  4152LMB MOD FAIL
144  SENSOR TAMPER
145  EXP. MODL.TAMPER
146  SILENT BURGLARY
147  SENSOR SUPERV FAIL
150  24 HOUR AUX
151  GAS DETECTED
152  REFRIGERATION
153  LOSS OF HEAT
154  WATER LEAKAGE
155  FOIL BREAK ALARM
156  DAY TROUBLE ALRM
157  LOW GAS LEVEL
158  HIGH TEMPERATURE
159  LOW TEMPERATURE
161  LOSS OF AIR FLOW
162  CARBON MONO. DETECT
163  TANK LEVEL
200  SPV-FIRE
201  SPV-WATER P. LOW
202  SPV-LOW C02
203  SPV-GATE VALVE
204  SPV-WATER LV LOW
```

205 SPV-PUMP ACTIVE
206 SPV-PUMP FAIL
300 SYSTEM TROUBLE
301 AC LOSS
302 LOW SYSTEM BAT
303 BAD RAM CHKSUM
304 BAD ROM CHKSUM
305 SYSTEM RESET
306 PROGRAM CHANGED
307 SELF TEST FAIL
308 SYSTEM SHUTDOWN
309 BAT. TEST FAIL
310 GROUND FAULT
311 BATT. MISSING/DEAD
312 PWR SPPLY OVRCURRNT
313 ENGINEER RESET
320 SOUNDER/RLY TRBL
321 BELL 1 TROUBLE
322 BELL 2 TROUBLE
323 ALARM RELAY TRBL
324 RELAY TROUBLE
325 REVERSING TRBL
326 NOTIF.APPLNCE CKT#3
327 NOTIF.APPLNCE CKT#4
330 SYSTEM PERIPHRAL
331 POLLING LP OPEN
332 POLLING LP SHRT
333 RF EXPANDER F-TR
334 REPEATER FAIL
335 PRINTR PAPER OUT
336 PRINTER FAIL
337 EXP. MOD DC LOSS
338 EXP. MOD LOW BAT
339 EXP. MOD RESET
341 EXP. MOD TAMPER
342 TRBL POLL LP SHT
343 TRBL EXP.MOD TRB
344 RF RECV JAM DETECT
350 COMMUN. TROUBLE
351 TELCO 1 FAULT
352 TELCO 2 FAULT
353 LR RADIO FAULT
354 FAIL TO COMM.
355 LOSS RADIO SPRV
356 LOSS CENTRAL PLG
357 RADIO VSWR PROBM
370 PROTECT. LP TRBL
371 PROTECT. LP OPEN
372 PROTECT. LP SHRT
373 FIRE LOOP TRBLE
374 EXIT ER BY ZONE
375 PANIC ZONE TRBL
376 HOLDUP ZONE TRBL
377 SWINGER TRBL
378 CROSS ZONE TRBL
380 SENSOR TR DY/N Z
381 SUPERVSN LOSS RF
382 SENSOR TROUBLE
383 SENSOR TAMPER
384 RF TRAN LOW BAT
385 SMOKE DET.HI SEN

386 SMOKE DET.LO SEN
387 INTRS DET.HI SEN
388 INTRS DET.LO SEN
389 SENSOR SLF-TST FAIL
391 SENSOR WATCH TRBL
392 DRIFT COMPENS.ERROR
393 MAINTENANCE ALERT
400 OPEN/CLOSE
401 O/C BY USER
402 GROUP O/C
403 POWER-UP ARMED
404 LATE TO O/C
405 DEFERRED O/C
406 CANCEL BY USER
407 REMOTE ARM DWNLD
408 QUICK ARM
409 KEYSWITCH O/C
410 REMOTE ACCESS
411 CALL BACK REQ.
412 SUCCESSFUL ACCSS
413 UNSUCCESFL ACCSS
414 SYSTEM SHUTDOWN
415 DIALER SHUTDOWN
416 SUCCESSFUL UPLOAD
421 ACCESS DENIED
422 ACCESS RPT/USER
423 FORCED ACCESS
424 EGRESS DENIED
425 EGRESS GRANTED
426 ACCESS DOOR PROPPED
427 ACCSS DOOR STAT.TRB
428 ACCSS EXIT RQST TRB
430 ACCESS PROGRAM EXIT
431 ACCESS LEVEL CHANGE
432 ACCSS RLY/TRGR FAIL
433 ACCESS RTE SHUNT
434 ACCESS DSM SHUNT
441 OP/CL-STAY MODE
442 KEYSWITCH ARMD STAY
450 EXCEPTION O/C
451 EARLY O/C
452 LATE O/C
453 FAIL TO OPEN
454 FAIL TO CLOSE
455 AUTO-ARM FAIL
456 PARTIAL O/C
457 EXIT ER BY USER
458 USER ON PREMISS
459 RECENT O/C
461 WRONG CODE ENTRY
462 LEGAL CODE ENTRY
463 RE-ARM AFTER ALARM
464 AUTO-ARM TIME EXTND
465 PANIC ALARM RESET
466 SRVCE ON/OFF PRMISS
500 SYSTEM DISABLE
501 SYSTEM DISABLE
502 SYSTEM DISABLE
503 SYSTEM DISABLE
504 SYSTEM DISABLE
505 SYSTEM DISABLE

506 SYSTEM DISABLE
507 SYSTEM DISABLE
508 SYSTEM DISABLE
509 SYSTEM DISABLE
510 SYSTEM DISABLE
520 SNDR/RLY DISABLE
521 BELL 1 DISABLE
522 BELL 2 DISABLE
523 ALRM RLY DISABLE
524 TRBL RLY DISABLE
525 RVSG RLY DISABLE
526 NOTIF.APPLNCE CKT#3
527 NOTIF.APPLNCE CKT#4
530 PERIPHRL DISABLE
531 PERIPHRL DISABLE
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538 PERIPHRL DISABLE
539 PERIPHRL DISABLE
540 PERIPHRL DISABLE
551 DIALER DISABLE
552 RADIO TX DISABLE
553 REMOTE UP/DWN DISBL
570 BYPASS
571 FIRE BYPASS
572 24 HR ZONE BYPSS
573 BURG BYPASS
574 GROUP BYPASS
575 SWINGER BYPASS
576 ACCESS ZONE SHUNT
577 ACCESS POINT BYPASS
601 MANUAL TEST
602 PERIODIC TEST
603 PERIODIC RF XMN
604 FIRE TEST
605 STATUS RPT NEXT
606 LISTEN IN NEXT
607 WALK TEST MODE
608 SYS TRBL PRESENT
609 VIDEO TX ACTIVE
611 POINT TESTED OK
612 POINT NOT TESTED
613 INTRSN ZE WLK TESTD
614 FIRE ZN WALK TESTED
615 PANIC ZN WALK TESTD
616 SERVICE REQUEST
621 EVENT LOG RESET
622 EVENTLG 50% FULL
623 EVENTLG 90% FULL
624 EVENTLG OVRFLOW
625 TIME-DATE RESET
626 TIME-DATE WRONG
627 PROGR MODE ENTRY
628 PROGR MODE EXIT
629 32 HR EVNT LOG MRKR
630 SCHEDULE CHANGED
631 SCHEDULE CHANGED

632 ACCSS SCHD CHNGE
641 SENIOR WTCH TRBL
642 LATCHKEY SPRVSN
651 RESERVED ADEMPCO
652 RESERVED ADEMPCO
653 RESERVED ADEMPCO
654 SYSTEM INACTIVITY